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August 10, 2005

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Art Unit 2165

Attn: Mail Stop Amendment

Re: U.S. Utility Patent Application  
Application No. 10/618,852; Filed: July 15, 2003  
For: **Subscription Based Systems, Methods and Components for Providing  
Genomic and Proteomic Products and Services**

Inventors: MUIR *et al.*  
Our Ref: 0942.5500001/RWE/FRC

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Listing of the cited documents on Form PTO-1449 (121 sheets);
3. A copy of four hundred-four (404) of the cited documents (in boxes 1 and 2) on Form PTO-1449;
4. First Supplemental Information Disclosure Statement;
5. Listing of the cited documents on Form PTO-1449 (24 sheets);
6. A copy of ninety-one (91) of the cited documents (in boxes 3 and 4) on Form PTO-1449; and
7. Return postcard.

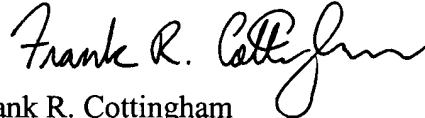
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents  
August 10, 2005  
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The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in cursive script, appearing to read "Frank R. Cottingham".

Frank R. Cottingham  
Attorney for Applicants  
Registration No. 50,437

FRC/pcd  
Encls.

430923v1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Muir *et al.*

Appl. No.: 10/618,852

Filed: July 15, 2003

For: **Subscription Based Systems,  
Methods and Components for  
Providing Genomic and  
Proteomic Products and Services**

Confirmation No.: 4340

Art Unit: 2165

Examiner: Popovici, D.

Atty. Docket: 0942.5500001/RWE/FRC

### Information Disclosure Statement

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all U.S. Patents and U.S. Patent Application Publications are not provided in accordance with 37 C.F.R. § 1.98(a)(2).

Copies of documents **AS114-AT114, AR115-AT115, AR116-AT116** and **AR117** are not provided in accordance with the U.S. Patent and Trademark Office OG notice of October 19, 2004, which states: "the requirement in 37 C.F.R. § 1.98(a)(2)(iii) for a legible copy of the specification, including the claims, and drawings of each cited pending U.S. patent application (or portion of the application which caused it to be listed) is *sua sponte* waived where the cited pending application is stored in the USPTO's IFW system." A copy all other documents is provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regard to non-English language documents **AL7** and **AO7** cited on Form PTO 1449:

Document **AL7**, PCT Patent Publication No. WO 98/53056, is in the German language. An unverified English language abstract of document **AL7** is cited as document **AS117**.

Document **AO7**, PCT Patent Publication No. WO 99/25851, is in the Japanese language. An unverified English language abstract of document **AO7** is cited as document **AT117**.

The Examiner's attention is directed to the following co-pending U.S. Patent Applications, which are directed to related technical subject matter:

U.S. Patent Application No. 09/438,358, Gerard *et al.*, filed November 12, 1999 and cited herewith as document **AS114**;

U.S. Patent Application No. 09/517,466, Hartley *et al.*, filed March 2, 2000 and cited herewith as document **AT114**;

U.S. Patent Application No. 09/695,065, Brasch *et al.*, filed October 25, 2000 and cited herewith as document **AR115**;

U.S. Patent Application No. 09/984,239, Brasch *et al.*, filed October 29, 2001 and cited herewith as document **AS115**;

U.S. Patent Application No. 10/633,690, Byrd *et al.*, filed August 5, 2003 and cited herewith as document **AT115**;

U.S. Patent Application No. 10/877,952, Welch *et al.*, filed June 28, 2004 and cited herewith as document **AR116**;

U.S. Patent Application No. 10/913,501, Chesnut *et al.*, filed August 9, 2004 and cited herewith as document **AS116**;

U.S. Patent Application No. 10/970,635, Hanson, filed October 22, 2004 and cited herewith as document **AT116**; and

U.S. Patent Application No. 11/000,371, Chesnut *et al.*, filed December 1, 2004 and cited herewith as document **AR117**.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Muir *et al.*  
Appl. No. 10/618,852

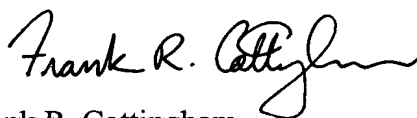
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Frank R. Cottingham  
Attorney for Applicants  
Registration No. 50,437

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INFORMATION DISCLOSURE STATEMENT PATENT & TRADEMARK OFFICE		ATTY. DOCKET NO. 0942.5500001/RWE/FRC		APPLICATION NO. 10/618,852			
		APPLICANTS Muir <i>et al.</i>					
		FILING DATE July 15, 2003		ART UNIT 2165			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,626,505	12/02/1986	Falco			02/24/1984
	AB1	4,673,640	06/16/1987	Backman			04/30/1984
	AC1	4,683,195	07/28/1987	Mullis <i>et al.</i>			02/07/1986
	AD1	4,683,202	07/28/1987	Mullis			10/25/1985
	AE1	4,743,546	05/10/1988	Backman <i>et al.</i>			04/29/1987
	AF1	4,808,537	02/28/1989	Stroman <i>et al.</i>			10/30/1984
	AG1	4,855,231	08/08/1989	Stroman <i>et al.</i>			09/25/1985
	AH1	4,959,217	09/25/1990	Sanders <i>et al.</i>			05/22/1986
	AI1	4,959,317	09/25/1990	Sauer			06/17/1987
	AJ1	4,965,188	10/23/1990	Mullis <i>et al.</i>			11/01/1989
	AK1	5,093,257	03/03/1992	Gray			05/26/1989
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 160 571	11/06/1985	Europe			Yes No
	AM1	EP 0 220 009	04/29/1987	Europe			Yes No
	AN1	EP 0 300 422	01/25/1989	Europe			Yes No
	AO1	WO 90/11375	10/04/1990	WIPO			Yes No
	AP1	WO 91/02801	03/07/1991	WIPO			Yes No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AR	1	Abremski, K., <i>et al.</i> , "Bacteriophage P1 Cre- <i>loxP</i> Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261:391-396, American Society for Biochemistry and Molecular Biology (1986)				
	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination. Purification and Properties of the Cre Recombinase Protein," <i>J. Biol. Chem.</i> 259:1509-1514, American Society for Biochemistry and Molecular Biology (1984)				
	AT	1	Abremski, K., <i>et al.</i> , "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," <i>Cell</i> 32:1301-1311, Cell Press (1993)				
EXAMINER					DATE CONSIDERED		
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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10/618,852

APPLICANTS

Muir *et al.*FILING DATE  
July 15, 2003ART UNIT  
2165**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,102,797	04/07/1992	Tucker <i>et al.</i>			01/19/1990
	AB2	5,159,062	10/27/1992	Knapp <i>et al.</i>			10/01/1990
	AC2	5,227,288	07/13/1993	Blattner			01/09/1991
	AD2	5,286,632	02/15/1994	Jones			07/16/1992
	AE2	5,334,375	08/02/1994	Nabi <i>et al.</i>			10/15/1993
	AF2	5,334,575	08/02/1994	Noonan <i>et al.</i>			12/17/1992
	AG2	5,348,886	09/20/1994	Lee <i>et al.</i>			09/04/1992
	AH2	5,354,668	10/11/1994	Auerbach			09/29/1992
	AI2	5,378,618	01/03/1995	Sternberg <i>et al.</i>			03/15/1994
	AJ2	5,434,066	07/18/1995	Bebee <i>et al.</i>			12/21/1993
	AK2	5,470,727	11/28/1995	Mascarenhas <i>et al.</i>			01/29/1993

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	EP 0 427 074	05/15/1991	Europe			Yes No
	AM2	WO 91/09957	07/11/1991	WIPO			Yes No
	AN2	WO 91/16427	10/31/1991	WIPO			Yes No
	AO2	WO 92/15694	09/17/1992	WIPO			Yes No
	AP2	WO 92/20791	11/26/1992	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>2</u>	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage $\lambda$ <i>xis</i> Gene Product Required for $\lambda$ Excisive Recombination," <i>J. Biol. Chem.</i> 257:9658-9662, American Society for Biochemistry and Molecular Biology (1982)
	AS	<u>2</u>	Adams, D.E., <i>et al.</i> , "Cre-lox Recombination in <i>Escherichia coli</i> Cells: Mechanistic Differences from the <i>in Vitro</i> Reaction," <i>J. Mol. Biol.</i> 226:661-673, Academic Press (1992)
	AT	<u>2</u>	Akagi, K., <i>et al.</i> , "Cre-mediated somatic site-specific recombination in mice," <i>Nucl. Acids Res.</i> 25:1766-1773, Oxford University Press (May 1997)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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10/618,852APPLICANTS  
Muir *et al.*FILING DATE  
July 15, 2003ART UNIT  
2165**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3	5,527,695	06/18/1996	Hodges <i>et al.</i>			02/03/1995
	AB3	5,591,609	01/07/1997	Auerbach			02/17/1994
	AC3	5,605,793	02/25/1997	Stemmer			09/26/1995
	AD3	5,614,389	03/25/1997	Auerbach			01/20/1995
	AE3	5,635,381	06/03/1997	Hooykaas <i>et al.</i>			06/07/1995
	AF3	5,650,308	07/22/1997	Baum			06/07/1995
	AG3	5,650,557	07/22/1997	Hannah <i>et al.</i>			07/27/1994
	AH3	5,654,182	08/05/1997	Wahl <i>et al.</i>			06/07/1995
	AI3	5,658,772	08/19/1997	Odell <i>et al.</i>			03/02/1994
	AJ3	5,677,170	10/14/1997	Devine <i>et al.</i>			06/07/1995
	AK3	5,677,177	10/14/1997	Wahl <i>et al.</i>			07/29/1996

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 92/22650	12/23/1992	WIPO			Yes No
	AM3	EP 0 542 466	05/19/1993	Europe			Yes No
	AN3	WO 93/15191	08/05/1993	WIPO			Yes No
	AO3	WO 93/19172	09/30/1993	WIPO			Yes No
	AP3	CA 2,141,412	02/17/1994	Canada			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>3</u>	Aladjem, M.I., <i>et al.</i> , "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," <i>Mol. Cell. Biol.</i> 17:857-861, American Society for Microbiology (February 1997)
	AS	<u>3</u>	Albert, H., <i>et al.</i> , "Site-specific Integration of DNA into wild-type and mutant <i>lox</i> sites placed in the plant genome," <i>Plant J.</i> 7:649-659, Blackwell Science Ltd. (1995)
	AT	<u>3</u>	Andrews, B.J., <i>et al.</i> , "The FLP Recombinase of the 2 $\mu$ Circle DNA of Yeast: Interaction with Its Target Sequences," <i>Cell</i> 40:795-803, Cell Press (1985)

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July 15, 2003ART UNIT  
2165**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	5,710,248	01/20/1998	Grose			06/07/1995
	AB4	5,723,765	03/03/1998	Oliver <i>et al.</i>			03/02/1995
	AC4	5,728,551	03/17/1998	Devine <i>et al.</i>			02/01/1996
	AD4	5,733,733	03/31/1998	Auerbach			06/10/1996
	AE4	5,733,743	03/31/1998	Johnson <i>et al.</i>			03/08/1996
	AF4	5,744,336	04/28/1998	Hodges <i>et al.</i>			02/13/1985
	AG4	5,766,891	06/16/1998	Shuman			12/19/1994
	AH4	5,776,449	07/07/1998	Baum <i>et al.</i>			09/20/1996
	AI4	5,801,030	09/01/1998	McVey <i>et al.</i>			09/01/1995
	AJ4	5,814,300	09/29/1998	Scott <i>et al.</i>			03/03/1995
	AK4	5,830,707	11/03/1998	Bushman			06/05/1995

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	WO 94/03624	02/17/1994	WIPO			Yes No
	AM4	WO 94/09127	04/28/1994	WIPO			Yes No
	AN4	WO 94/17176	08/04/1994	WIPO			Yes No
	AO4	WO 94/18333	08/18/1994	WIPO			Yes No
	AP4	WO 95/00555	01/05/1995	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>4</u>	Andrews, B.J., <i>et al.</i> , "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2µm Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology (1986)
	AS	<u>4</u>	Angelastro, J.M., <i>et al.</i> , "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 97:10424-10429, National Academy of Sciences (September 2000)
	AT	<u>4</u>	Angrand, P.O., <i>et al.</i> , "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," <i>Nucl. Acids Res.</i> 26:3263-3269, Oxford University Press (July 1998)

EXAMINER

DATE CONSIDERED

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July 15, 2003ART UNIT  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5	5,837,242	11/17/1998	Holliger <i>et al.</i>			05/14/1996
	AB5	5,837,458	11/17/1998	Minshull <i>et al.</i>			05/20/1996
	AC5	5,843,772	12/01/1998	Devine <i>et al.</i>			11/18/1994
	AD5	5,851,808	12/22/1998	Elledge <i>et al.</i>			02/28/1997
	AE5	5,858,657	01/12/1999	Winter <i>et al.</i>			06/07/1995
	AF5	5,871,907	02/16/1999	Winter <i>et al.</i>			03/31/1994
	AG5	5,874,259	02/23/1999	Szybalski			11/21/1997
	AH5	5,888,732	03/30/1999	Hartley <i>et al.</i>			06/07/1996
	AI5	5,916,804	06/29/1999	Bushman			04/17/1998
	AJ5	5,919,676	07/06/1999	Graham <i>et al.</i>			06/07/1995
	AK5	5,928,914	07/27/1999	Leboulch <i>et al.</i>			11/05/1996

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	WO 96/04393	02/19/1996	WIPO			Yes No
	AM5	WO 96/19497	06/27/1996	WIPO			Yes No
	AN5	WO 96/30498	10/03/1996	WIPO			Yes No
	AO5	WO 96/40722	12/19/1996	WIPO			Yes No
	AP5	WO 96/40724	12/19/1996	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606, American Society for Microbiology (1995)
	AS	5	Araki, H., <i>et al.</i> , "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37, Academic Press, Inc., New York, NY (1992)
	AT	5	Astumian, J.H., <i>et al.</i> , "Site-specific recombination between cloned attP and attB sites from the Haemophilus influenza bacteriophage HP1 propagated in recombination deficient <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 171:1747-1750, American Society for Microbiology (1989)

EXAMINER

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2165**U.S. PATENT DOCUMENTS**

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	AA6	5,929,307	07/27/1999	Hodges <i>et al.</i>			12/20/1996
	AB6	5,962,255	10/05/1999	Griffiths <i>et al.</i>			12/05/1994
	AC6	5,981,177	11/09/1999	Demirjian <i>et al.</i>			01/25/1995
	AD6	5,989,872	11/22/1999	Luo <i>et al.</i>			08/12/1997
	AE6	6,010,884	01/04/2000	Griffiths <i>et al.</i>			05/29/1996
	AF6	6,040,430	03/21/2000	Stewart			12/26/1995
	AG6	6,066,778	05/23/2000	Ginsburg, <i>et al.</i>			11/06/1996
	AH6	6,063,627	06/16/2000	McVey <i>et al.</i>			02/25/1998
	AI6	6,080,576	06/27/2000	Zambrowicz, <i>et al.</i>			04/08/1998
	AJ6	6,143,557	11/07/2000	Hartley <i>et al.</i>			01/20/1999
	AK6	6,171,861	01/09/2001	Hartley <i>et al.</i>			01/12/1998

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	AL6	WO 97/06265	02/20/1997	WIPO			Yes No
	AM6	WO 97/09436	03/13/1997	WIPO			Yes No
	AN6	WO 97/25446	07/17/1997	WIPO			Yes No
	AO6	WO 97/32481	09/12/1997	WIPO			Yes No
	AP6	WO 98/10086	03/12/1998	WIPO			Yes No

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	AR	<u>6</u>	Atlung, T., <i>et al.</i> , "A versatile method for integration of genes and gene fusions into the $\lambda$ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier Science (1991)
	AS	<u>6</u>	Ausubel, F.M., <i>et al.</i> , "Maps of Plasmids pBR322 and pUC19," in <i>Short Protocols in Molecular Biology, Third Edition</i> , John Wiley & Sons, Inc., Boston, MA, pp. 1.12-1.13 (1995)
	AT	<u>6</u>	Ayres, E.K., <i>et al.</i> , "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX) The <i>trfA</i> Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," <i>J. Mol. Biol.</i> 230:174-185, Academic Press (1993)

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	AA7	6,225,121	05/01/2001	Savakis, C. <i>et al.</i>			04/27/1998
	AB7	6,262,341	07/17/2001	Baszczynski <i>et al.</i>			11/17/1998
	AC7	6,270,969	08/07/2001	Hartley <i>et al.</i>			01/20/1999
	AD7	6,271,436	08/07/2001	Piedrahita <i>et al.</i>			10/10/1997
	AE7	6,277,608	08/21/2001	Hartley <i>et al.</i>			04/22/1999
	AF7	2002/0007051	01/17/2002	Cheo <i>et al.</i>			12/11/2000
	AG7	6,361,972	03/26/2002	Harrington <i>et al.</i>			01/10/2000
	AH7	6,365,377	04/02/2002	Patten <i>et al.</i>			03/03/2000
	AI7	2002/0068290	06/06/2002	Yarovinsky			05/31/2001
	AJ7	6,410,266	06/25/2002	Harrington <i>et al.</i>			01/07/2000
	AK7	6,410,317	06/25/2002	Farmer			07/14/2000

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	AL7	WO 98/53056	11/26/1998	WIPO			Yes X No
	AM7	WO 99/10488	03/04/1999	WIPO			Yes No
	AN7	WO 99/21977	05/06/1999	WIPO			Yes No
	AO7	WO 99/25851	05/27/1999	WIPO			Yes X No
	AP7	WO 99/55851	11/04/1999	WIPO			Yes No

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	AR	<u>1</u>	Babineau, D., <i>et al.</i> , "The FLP Protein of the 2-micron Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391, American Society for Biochemistry and Molecular Biology, Inc. (1985)
	AS	<u>1</u>	Backman, K., <i>et al.</i> , "Use of Synchronous Site-Specific Recombination <i>In Vivo</i> to Regulate Gene Expression," <i>BioTechnology</i> 2:1045-1049 (1984)
	AT	<u>1</u>	Bai, C., <i>et al.</i> , " <i>SKP1</i> Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," <i>Cell</i> 86:263-274, Cell Press (July 1996)

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	AA8	2002/0094574	07/18/2002	Hartley <i>et al.</i>			05/16/2001
	AB8	2002/0106797	08/08/2002	Miles <i>et al.</i>			03/12/2001
	AC8	6,436,707	08/20/2002	Zambrowicz <i>et al.</i>			03/25/1999
	AD8	2002/0172997	11/21/2002	Hartley <i>et al.</i>			07/19/2001
	AE8	2002/0182731	12/05/2002	Ji <i>et al.</i>			01/25/2002
	AF8	2002/0192819	12/19/2002	Hartley <i>et al.</i>			07/19/2001
	AG8	2003/0027289	02/06/2003	Farmer			04/05/2002
	AH8	2003/0027337	02/06/2003	Droge <i>et al.</i>			02/25/2002
	AI8	2003/0054552	03/20/2003	Hartley <i>et al.</i>			01/30/2002
	AJ8	2003/0054555	03/20/2003	Farmer <i>et al.</i>			09/17/2002
	AK8	2003/0059900	03/27/2003	Farmer			01/17/2002

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	AL8	WO 00/12687	03/09/2000	WIPO			Yes No
	AM8	EP 1 035 208	09/13/2000	Europe			Yes No
	AN8	WO 00/60091	10/12/2000	WIPO			Yes No
	AO8	WO 01/05961	01/25/2001	WIPO			Yes No
	AP8	WO 01/07572	02/01/2001	WIPO			Yes No

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	AR	8	Balakrishnan, R., <i>et al.</i> , "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for <i>att</i> -Int-mediated rearrangement and <i>p<sub>L</sub></i> expression vectors," <i>Gene</i> 138:101-104, Elsevier Science (January 1994)
	AS	8	Ball, C.A., and Johnson, R.C., "Efficient Excision of Phage $\lambda$ from the <i>Escherichia coli</i> Chromosome Requires the Fis Protein," <i>J. Bacteriol.</i> 173: 4027-4031, American Society for Microbiology (July 1991)
	AT	8	Barnes, G., and Rine, J., "Regulated expression of endonuclease <i>EcoRI</i> in <i>Saccharomyces cerevisiae</i> : Nuclear entry and biological consequences," <i>Proc. Natl. Acad. Sci. USA</i> 82: 1354-1358, National Academy of Sciences (1985)

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	AA9	2003/0064515	04/03/2003	Hartley <i>et al.</i>			01/30/2002
	AB9	2003/0068799	04/10/2003	Hartley <i>et al.</i>			06/06/2002
	AC9	2003/0077804	04/24/2003	Byrd <i>et al.</i>			04/19/2002
	AD9	2003/0100110	05/29/2003	Hartley <i>et al.</i>			11/02/1999
	AE9	2003/0124555	07/03/2003	Brasch <i>et al.</i>			05/21/2002
	AF9	2003/0153055	08/14/2003	Miles <i>et al.</i>			02/20/2003
	AG9	2003/0157662	08/21/2003	Gerard <i>et al.</i>			11/13/2002
	AH9	2003/0157716	08/21/2003	Hartley <i>et al.</i>			11/02/2001
	AI9	2003/0175970	09/18/2003	Hartley <i>et al.</i>			11/21/2002
	AJ9	2003/0176644	09/18/2003	Byrd <i>et al.</i>			02/07/2002
	AK9	2003/0186233	10/02/2003	Chesnut <i>et al.</i>			12/07/2001

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	AL9	WO 01/11058	02/15/2001	WIPO			Yes No
	AM9	WO 01/31039	05/03/2001	WIPO			Yes No
	AN9	WO 01/62892	08/30/2001	WIPO			Yes No
	AO9	WO 02/00875	01/03/2002	WIPO			Yes No
	AP9	WO 02/05294	01/17/2002	WIPO			Yes No

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	AR	9	Bauer, C.E., <i>et al.</i> , "Extent of Sequence Homology Required for Bacteriophage Lambda Site-specific Recombination," <i>J. Mol. Biol.</i> 181:187-197, Academic Press Inc. (1985)
	AS	9	Bayley, C.C., <i>et al.</i> , "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361, Dordrecht Kluwer Academic (1992)
	AT	9	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid Ccdb Protein Involves Poisoning of DNA-topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745, Academic Press, Inc. (1992)

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	AA10	2003/0220249	11/27/2003	Hackett <i>et al.</i>			02/07/2003
	AB10	2004/0040053	02/26/2004	Nomura <i>et al.</i>			11/22/2002
	AC10	2004/0053412	03/18/2004	Hartley <i>et al.</i>			03/26/2003
	AD10	2004/0063207	04/01/2004	Hartley <i>et al.</i>			10/08/2003
	AE10	6,720,140	04/13/2004	Hartley <i>et al.</i>			02/04/2000
	AF10	2004/0171156	09/02/2004	Hartley <i>et al.</i>			04/02/2004
	AG10	2004/0171157	09/02/2004	Hartley <i>et al.</i>			04/08/2004
	AH10	2004/0219516	11/04/2004	Bennett <i>et al.</i>			07/18/2003
	AI10	2004/0219673	11/04/2004	Hartley <i>et al.</i>			03/10/2004
	AJ10	2004/0229229	11/18/2004	Cheo <i>et al.</i>			08/14/2003
	AK10	2004/0253631	12/16/2004	Hartley <i>et al.</i>			07/19/2004

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	AL10	WO 02/08391	01/31/2002	WIPO			Yes No
	AM10	WO 02/16594	02/28/2002	WIPO			Yes No
	AN10	WO 02/061034	08/08/2002	WIPO			Yes No
	AO10	WO 03/025161	03/27/2003	WIPO			Yes No
	AP10	WO 03/103600	12/18/2003	WIPO			Yes No

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	AR	<u>10</u>	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing Company (1996)
	AS	<u>10</u>	Bernard, P. <i>et al.</i> , "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> 234:534-541, Academic Press, Inc. (1993)
	AT	<u>10</u>	Bernard, P., <i>et al.</i> , "Positive selection of vectors using the F plasmid <i>ccdB</i> killer gene," <i>Gene</i> 148: 71-74, Elsevier Science (1994)

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	AA11	2004/0265863	12/30/2004	Chesnut <i>et al.</i>			03/04/2004
	AB11	2005/0009091	01/13/2005	Hartley <i>et al.</i>			08/19/2004
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>11</u>	Bethke, B., and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834, Oxford University Press (1997)
	AS	<u>11</u>	Betz, U.A.K., <i>et al.</i> , "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316, Current Biology Ltd. (October 1996)
	AT	<u>11</u>	Bhandari, P., and Gowrishankar, J., "An <i>Escherichia coli</i> host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," <i>J. Bacteriol</i> 179:4403-4406, American Society for Microbiology (July 1997)

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	AR	<u>12</u>	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier Science (1986)
	AS	<u>12</u>	Bloch, C.A., <i>et al.</i> , "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc. (1996)
	AT	<u>12</u>	Bochner, B.R., <i>et al.</i> , "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933, American Society for Microbiology (1980)

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	AR	<u>13</u>	Boshart, M., <i>et al.</i> , "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," <i>Cell</i> 41:521-530, MIT (1985)
	AS	<u>13</u>	Bouhassira, E.E., <i>et al.</i> , "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," <i>Blood</i> 90:3332-3344, The American Society of Hematology (November 1997)
	AT	<u>13</u>	Boyd, A.C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21:817-821, Oxford University Press (1993)

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	AR	<u>14</u>	Brent, R., and Ptashne, M., "A bacterial repressor protein or a yeast transcriptional terminator can block upstream activation of a yeast gene," <i>Nature</i> 312: 612-615, Macmillan Journals Ltd. (1984)
	AS	<u>14</u>	Broach, J. R., <i>et al.</i> , "Recombination within the Yeast Plasmid 2 $\mu$ Circle is Site-Specific," <i>Cell</i> 29:227-234, Cell Press (1982)
	AT	<u>14</u>	Bruckner, R.C., and Cox, M.M., "The Histone-like H Protein of <i>Escherichia coli</i> is a ribosomal protein s3," <i>Nucl. Acids Res.</i> 17:3145-3161 (1989)

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	AR	<u>15</u>	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by <i>In Vivo cre/lox</i> -Mediated Recombination," <i>BioTechniques</i> 16:1061-1064, Eaton Publishing Company (June 1994)
	AS	<u>15</u>	Brunelli, J.P. and Pall, M.L., "A Series of Yeast/ <i>Escherichia coli</i> $\lambda$ Expression Vectors Designed for Directional Cloning of cDNAs and <i>cre/lox</i> -Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318, John Wiley (1993)
	AT	<u>15</u>	Bubeck, P., <i>et al.</i> , "Rapid cloning by homologous recombination <i>in vivo</i> ," <i>Nucl. Acids Res.</i> 21:3601-3602, Oxford University Press (1993)

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	AR	<u>16</u>	Buchholz, F., <i>et al.</i> , "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24:3118-3119, Oxford University Press (1996)
	AS	<u>16</u>	Buchholz, F., <i>et al.</i> , "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," <i>Nucl. Acids Res.</i> 24:4256-4262, Oxford University Press (1996)
	AT	<u>16</u>	Bushman, W., <i>et al.</i> , "Control of Directionality in Lambda Site Specific Recombination," <i>Science</i> 230:906-911, American Association for the Advancement of Science (1985)

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	AR	<u>44</u>	Hoess, R.H., <i>et al.</i> , "The role of the <i>loxP</i> spacer region in P1 site-specific recombination," <i>Nucl. Acids Res.</i> 14:2287-2300, Oxford University Press (1986)
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	AR	<u>45</u>	Holt, C.L., and May, G.S., "A novel phage $\lambda$ replacement Cre-lox vector that has automatic subcloning capabilities," <i>Gene</i> 133:95-97, Elsevier Science (1993)
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	AR	<u>48</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: <a href="http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html">http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html</a> (accessed July 7, 2004)
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	AM						Yes No
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	AR	<u>100</u>	Spinella, D.G., <i>et al.</i> , "Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles," <i>Nucl. Acids Res.</i> 27(e22):i-viii, Oxford University Press (1999)
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	AR	<u>101</u>	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," <i>Trends Biochem. Sci.</i> 23:486-490, Elsevier Science Publishers (1998)
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	AR	<u>107</u>	Vetter, D., <i>et al.</i> , "Site-specific recombination of yeast 2- $\mu$ m DNA <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80: 7284-7288, National Academy of Sciences (1983)
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	AR	<u>108</u>	Wang, G., <i>et al.</i> , "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:7874-7878, National Academy of Sciences (1993)
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	AP						Yes No

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	AR	<u>114</u>	Zhu, X.D., <i>et al.</i> , "Homology requirements for ligation and strand exchange by the FLP recombinase," <i>J. Biol. Chem.</i> 270:11646-11653, American Society for Biochemistry and Molecular Biology (1995)
	AS	<u>114</u>	U.S. Patent Application No. 09/438,358, Gerard <i>et al.</i> , filed November 12, 1999 (NOT PUBLISHED)
	AT	<u>114</u>	U.S. Patent Application No. 09/517,466, Hartley <i>et al.</i> , filed March 2, 2000 (NOT PUBLISHED)

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.5500001/RWE/FRCAPPLICATION NO.  
10/618,852APPLICANTS  
Muir *et al.*FILING DATE  
July 15, 2003ART UNIT  
2165**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>115</u>	U.S. Patent Application No. 09/695,065, Brasch <i>et al.</i> , filed October 25, 2000 (NOT PUBLISHED)
	AS	<u>115</u>	U.S. Patent Application No. 09/984,239, Brasch <i>et al.</i> , filed October 29, 2001 (NOT PUBLISHED)
	AT	<u>115</u>	U.S. Patent Application No. 10/633,690, Byrd <i>et al.</i> , filed August 5, 2003 (NOT PUBLISHED)

EXAMINER

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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>116</u>	U.S. Patent Application No. 10/877,952, Welch <i>et al.</i> , filed June 28, 2004 (NOT PUBLISHED)
	AS	<u>116</u>	U.S. Patent Application No. 10/913,501, Chesnut <i>et al.</i> , filed August 9, 2004 (NOT PUBLISHED)
	AT	<u>116</u>	U.S. Patent Application No. 10/970,635, Hanson, filed October 22, 2004 (NOT PUBLISHED)

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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>117</u>	U.S. Patent Application No. 11/000,371, Chesnut <i>et al.</i> , filed December 1, 2004 (NOT PUBLISHED)
	AS	<u>117</u>	Dialog File 351, Derwent World Patent Index, unverified English Language Abstract for PCT Patent No. WO 98/53056 (Document AL7), WPI Accession No. 12194396
	AT	<u>117</u>	Dialog File 351, Derwent World Patent Index, unverified English Language Abstract for PCT Patent No. WO 99/25851 (Document AO7), WPI Accession No. 12541379

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	AP						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>118</u>	Argos, P., <i>et al.</i> , "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5:433-440, IRL Press Ltd. (1986)
	AS	<u>118</u>	Invitrogen Online Catalog, "The Echo™ Cloning System: The Future of Cloning is Here," available at: <a href="http://invitrogen.com/content.cfm?pageid=3371&amp;cfid=16767784&amp;cftoken=62396683">http://invitrogen.com/content.cfm?pageid=3371&amp;cfid=16767784&amp;cftoken=62396683</a> (accessed July 7, 2004)
	AT	<u>118</u>	Office Action for U.S. Patent Application No. 09/907,719, mailed on July 13, 2004

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	AP						Yes
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	AR	<u>119</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on July 16, 2004
	AS	<u>119</u>	Office Action for U.S. Patent Application No. 10/058,291, mailed on September 22, 2004
	AT	<u>119</u>	Office Action for U.S. Patent Application No. 10/058,292, mailed on September 22, 2004

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	AR	<u>120</u>	Office Action for U.S. Patent Application No. 09/855,797, mailed on October 1, 2004
	AS	<u>120</u>	Office Action for U.S. Patent Application No. 09/695,065, mailed on October 27, 2004
	AT	<u>120</u>	Office Action for U.S. Patent Application No. 10/820,133 mailed on November 17, 2004

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

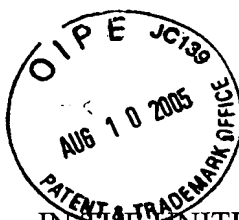
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>121</u>	Office Action for U.S. Patent Application No. 09/907,719 mailed on December 28, 2004
	AS	<u>121</u>	Office Action for U.S. Patent Application No. 09/432,085, mailed on December 28, 2004
	AT	<u>121</u>	Office Action for U.S. Patent Application No. 10/796,868, mailed on January 25, 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Muir *et al.*

Appl. No.: 10/618,852

Filed: July 15, 2003

For: **Subscription Based Systems,  
Methods and Components for  
Providing Genomic and  
Proteomic Products and Services**

Confirmation No.: 4340

Art Unit: 2165

Examiner: Popovici, D.

Atty. Docket: 0942.5500001/RWE/FRC

**First Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of all U.S. Patents and U.S. Patent Application Publications are not provided in accordance with 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following, in regard to non-English language documents **AL20** and **AM20** cited on Form PTO 1449:

Document **AL20**, French Patent Publication No. FR 2 670 502, is in the French language. Document **AM20**, PCT Patent Publication No. WO 92/10577, is in the French language. An unverified English language abstract of documents **AL20** and **AM20** is cited as document **AT222**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned.



Muir *et al.*  
Appl. No. 10/618,852

However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

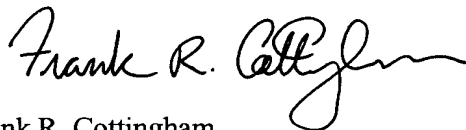
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

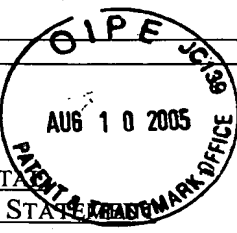
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Frank R. Cottingham  
Attorney for Applicants  
Registration No. 50,437

Date: AUG. 10, 2005  
1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600  
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		Page 1 of 24	
FORM PTO-1449		ATTY. DOCKET NO. 0942.5500001/RWE/FRC	APPLICATION NO. 10/618,852
FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANTS Muir <i>et al.</i>	
		FILING DATE July 15, 2003	ART UNIT 2165

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA20	5,451,513	09/19/1995	Maliga <i>et al.</i>			08/25/1993
	AB20	6,040,138	03/21/2000	Lockhart <i>et al.</i>			09/15/1995
	AC20	6,174,669	01/16/2001	Hayashizaki <i>et al.</i>			11/20/1996
	AD20	6,197,554	03/06/2001	Lin <i>et al.</i>			11/20/1998
	AE20	6,303,301	10/16/2001	Mack			05/29/1998
	AF20	6,309,822	10/30/2001	Fodor <i>et al.</i>			12/23/1996
	AG20	6,333,155	12/25/2001	Lockhart <i>et al.</i>			12/18/1998
	AH20	6,399,334	06/04/2002	Li <i>et al.</i>			09/23/1998
	AI20	2002/0162126	10/31/2002	Beach <i>et al.</i>			05/24/2001
	AJ20	6,544,790	04/08/2003	Sabatini			09/18/2000
	AK20	2003/0135888	07/17/2003	Zhu <i>et al.</i>			09/26/2002

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL20	FR 2 670 502	06/19/1992	France			Yes X No
	AM20	WO 92/10577	06/25/1992	WIPO			Yes X No
	AN20	WO 94/20604	09/15/1994	WIPO			Yes No
	AO20	WO 98/47912	10/29/1998	WIPO			Yes No
	AP20	WO 98/51699	11/19/1998	WIPO			Yes No

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>200</u>	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells. Targeted Expression of Cre Recombinase Provokes Cardiac-restricted, Site-specific Rearrangement in Adult Ventricular Muscle In Vivo," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)
	AS	<u>200</u>	Altschul, S.F., <i>et al.</i> , "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucleic Acids Res.</i> 25:3389-3402, Oxford University Press (1997)
	AT	<u>200</u>	Baum, J.A., "Tn5401, a New Class II Transposable Element From <i>Bacillus thuringiensis</i> ," <i>J. Bacteriol.</i> 176:2835-2845, American Society for Microbiology (1994)

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	AA21	2003/0175772	09/18/2003	Wang			12/26/2002
	AB21	6,720,140	04/13/2004	Hartley <i>et al.</i>			02/04/2000
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL21	WO 98/56943	12/17/1998	WIPO			Yes No
	AM21	WO 99/15702	04/01/1999	WIPO			Yes No
	AN21	WO 00/29000	05/25/2000	WIPO			Yes No
	AO21	WO 00/52027	09/08/2000	WIPO			Yes No
	AP21	WO 00/52141	09/08/2000	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>201</u>	Benoist, C. and Chambon, P., " <i>In vivo</i> sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
	AS	<u>201</u>	Botstein, D., <i>et al.</i> , "Making Mutations In Vitro and Putting Them Back Into Yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)
	AT	<u>201</u>	Broach, J.R., "The Yeast Plasmid 2 $\mu$ Circle," <i>Cell</i> 28:203-204, MIT (1982)

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	AL22	WO 01/25466	04/12/2001	WIPO			Yes No
	AM22	WO 01/42509	06/14/2001	WIPO			Yes No
	AN22	WO 01/68836	09/20/2001	WIPO			Yes No
	AO22	WO 02/46372	06/13/2002	WIPO			Yes No
	AP22	WO 02/062957	08/15/2002	WIPO			Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>202</u>	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription-translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AS	<u>202</u>	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (September 1996)
	AT	<u>202</u>	Cooper, T.A., and Mattox, W., "Gene Regulation '97: The Regulation of Splice-Site Selection, and Its Role in Human Disease," <i>Am. J. Hum. Genet.</i> 61:259-266, American Society of Human Genetics (1997)

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	AL23	WO 02/086144	10/31/2002	WIPO			Yes No
	AM23	WO 02/095055	11/28/2002	WIPO			Yes No
	AN23	WO 03/044207	05/30/2003	WIPO			Yes No
	AO23	WO 04/009768	01/29/2004	WIPO			Yes No
	AP23	WO 04/013290	02/12/2004	WIPO			Yes No

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	AR	<u>203</u>	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)
	AS	<u>203</u>	Eggertsson, G., and Söll, D., <i>et al.</i> , "Transfer Ribonucleic Acid-Mediated Suppression of Termination Codons in <i>Escherichia coli</i> ," <i>Microbiol. Rev.</i> 52:354-374, American Society for Microbiology (1988)
	AT	<u>203</u>	Engelberg-Kukla, H., and Schoulaker-Schwarz, R., in <i>Escherichia coli and Salmonella Cellular and Molecular Biology</i> , 2nd Ed., Neidhardt, F.C., <i>et al.</i> , eds., ASM Press, Washington, DC, pp. 909-921 (1996)

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	AL24	WO 01/59683 A2	08/16/2001	WIPO			Yes No
	AM						Yes No
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	AR	<u>204</u>	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
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	AR	<u>205</u>	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)
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Muir *et al.*FILING DATE  
July 15, 2003ART UNIT  
2165**U.S. PATENT DOCUMENTS**

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	AN						Yes No
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	AR	<u>218</u>	Short, J.M., <i>et al.</i> , "λ ZAP: a bacteriophage λ expression vector with <i>in vivo</i> excision properties," <i>Nucleic Acids Res.</i> 16:7583-7600, Oxford University Press (1988)
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